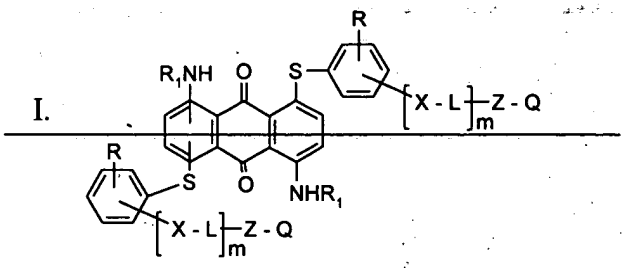
AMENDMENT

1. (Currently Amended) Anthraquinone dye compounds having ~~the formulae:~~ formula X. or formula XIV.:

I.



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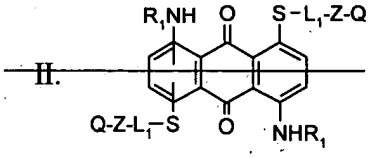

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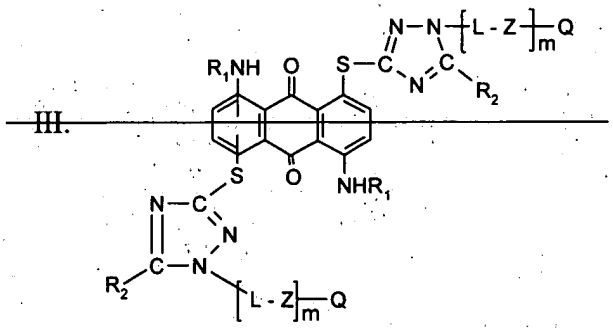

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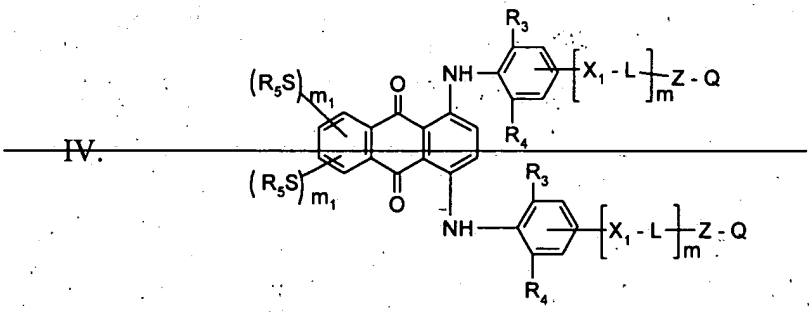

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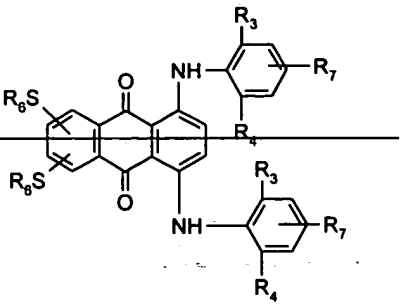

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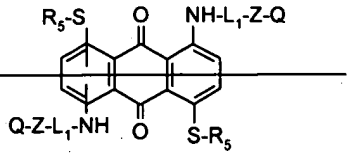

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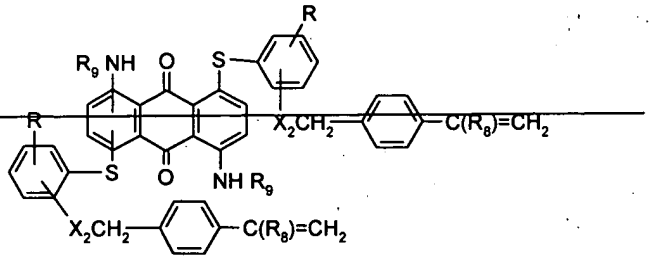

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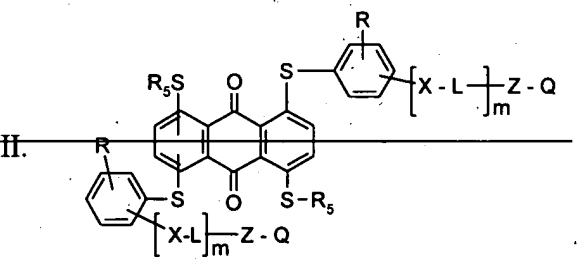

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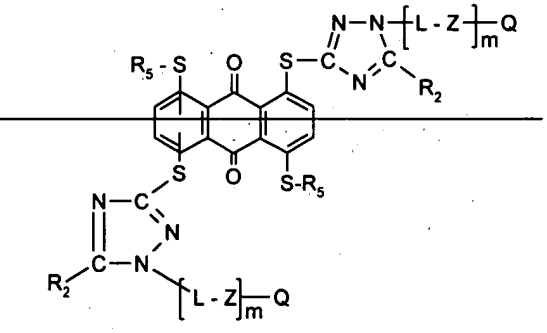
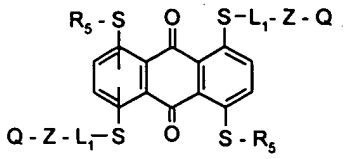
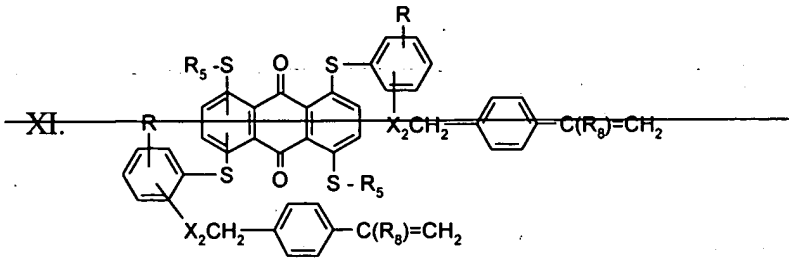


X.



~~XI.~~



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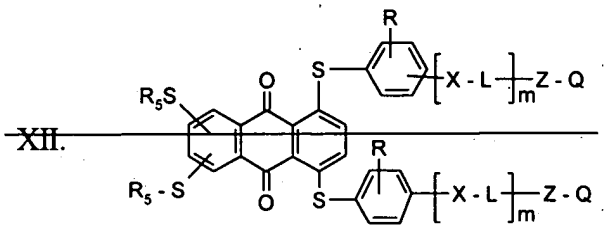

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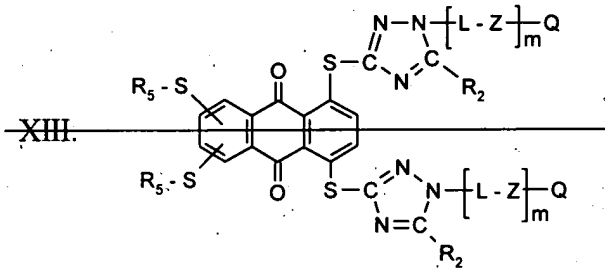

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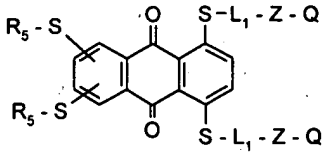

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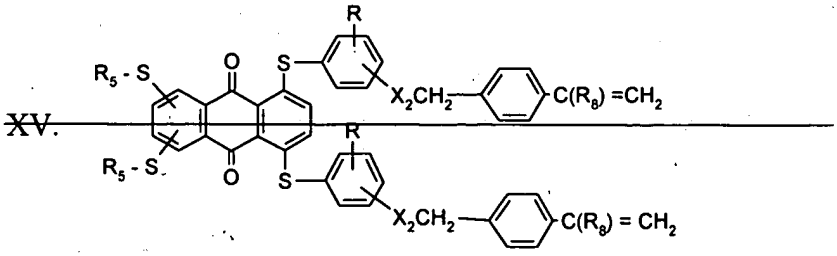
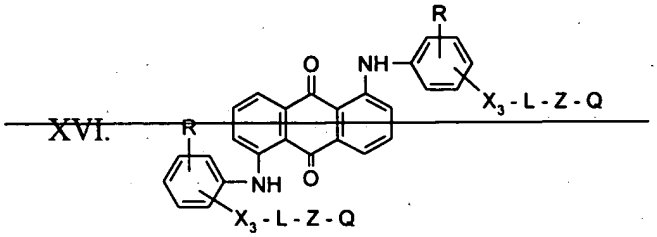
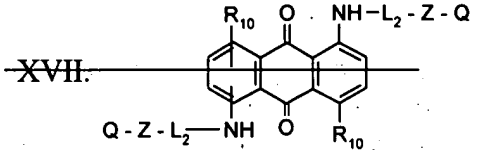
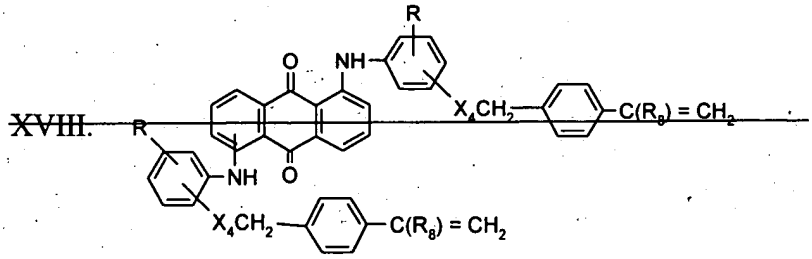
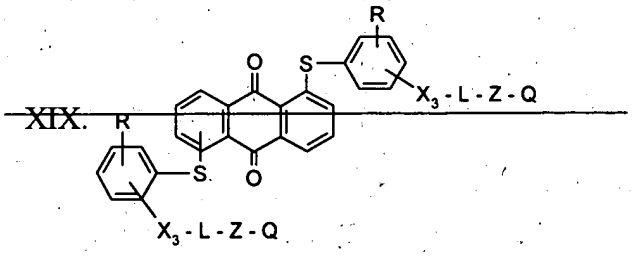
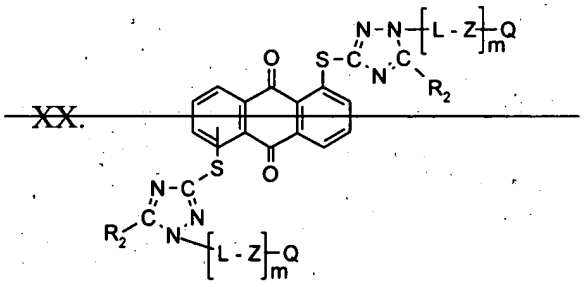


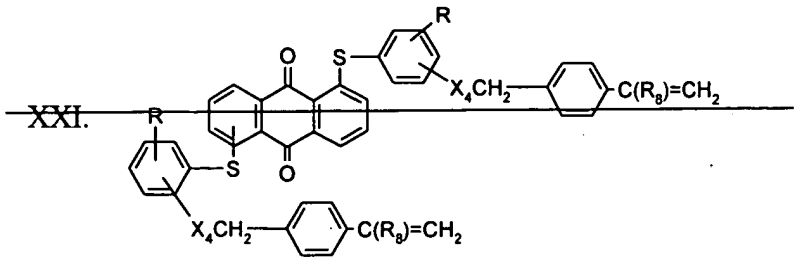
~~XVI.~~ 

~~XVII.~~ 

~~XVIII.~~ 

~~XIX.~~ 

~~XX.~~ 

~~XXI.~~ 

wherein:

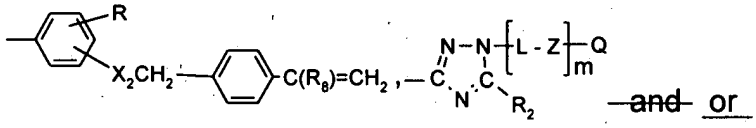
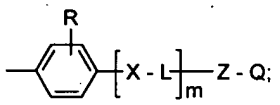
R is ~~selected from~~ hydrogen or 1-3 groups selected from C_1 - C_6-alkyl, C_1 - C_6-alkoxy and halogen;

~~R_1 is selected from C_1 – C_6-alkyl, substituted C_1 – C_6-alkyl, C_3 – C_8-alkenyl, C_3 – C_8-cycloalkyl, aryl and L_1-Z-Q;~~

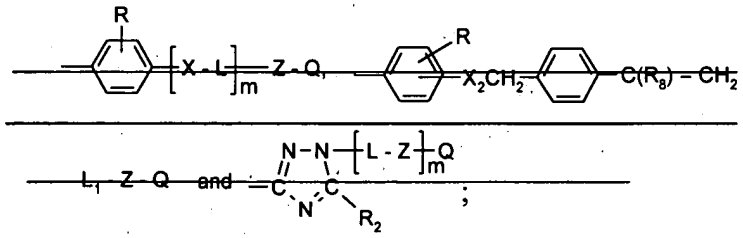
R_2 ~~= selected from hydrogen~~ is hydrogen, C_1 - C_6-alkyl, substituted C_1 - C_6-alkyl, C_3 - C_8-cycloalkyl ~~and aryl~~ or aryl;

~~R_3 and R_4 are independently selected from C_1 – C_6-alkyl and bromine;~~

R_5 is ~~selected from~~ C_1 - C_6-alkyl, substituted C_1 - C_6 alkyl, C_3 - C_8-cycloalkyl, aryl, heteroaryl, -L_1-Z-Q,

 ~~and~~ or 

~~R_6 is selected from~~



~~R_7 is selected from hydrogen, substituted or unsubstituted C_1 – C_6-alkyl, C_1 – C_6-alkoxy, halogen, hydroxy, substituted or unsubstituted C_1 – C_6-alkylthio, sulfamoyl and substituted sulfamoyl;~~

R_8 is ~~selected from hydrogen and~~ hydrogen or C_1 - C_6-alkyl;

~~R_9 is selected from the groups represented by R_1 and -L-Z-Q;~~

~~R_{10} is selected from hydrogen and halogen;~~

X is a covalent bond or a divalent linking group selected from -O-, -S-, -SO_2-, -CO_2-, -CON(Y) - and -SO_2N(Y)-, wherein Y is ~~selected from~~ hydrogen, C_1- C_6-alkyl, substituted C_1-C_6-alkyl, C_3-C_8-cycloalkyl, C_3-C_8-alkenyl~~, aryl and~~ aryl or -L-Z- Q;

~~X_1 is selected from -O-, -S-, -SO_2- and -SO_2N(Y)-;~~

X_2 is selected from -CO_2 - and -SO_2N(Y_1), wherein Y_1 is ~~a group selected from~~ hydrogen, C_1-C_6-alkyl, substituted C_1-C_6-alkyl, C_3-C_8-alkenyl, C_3-C_8-cycloalkyl, aryl, heteroaryl ~~and~~ or -CH_2-p-C_6H_4-C(R_8)=CH_2;

~~X_3 is selected from -CO_2-, -SO_2N(Y)-;~~

~~X_4 is selected from -CO_2-, -O- and -SO_2N(Y_1)-;~~

L is a divalent linking group selected from C_1-C_8-alkylene, C_1-C_6-alkylene-arylene, arylene, C_1-C_6-alkylene-arylene -C_1-C_6-alkylene, C_3-C_8-cycloalkylene, C_1-C_6-alkylene -C_3-C_8-cycloalkylene -C_1-C_6-alkylene, C_1-C_6-alkylene - Z_1-arylene -Z_1-C_1-C_6-alkylene ~~and~~ or C_2-C_6-alkylene-[-Z_1-C_2-C_6-alkylene-]$_n$- wherein Z_1 is ~~selected from~~ -O-, -S- ~~and~~ or -SO_2- and n is 1-3;

L_1 is a divalent linking group selected from C_2 - C_6-alkylene, C_1-C_6-alkylene-C_3-C_8-cycloalkylene-C_1-C_6-alkylene, C_1-C_6-alkylene-arylene, C_3-C_8-cycloalkylene, and C_2-C_6-alkylene-[-Z_1-C_2-C_6-alkylene-]$_n$-, wherein Z_1 is -O-, -S- or -SO_2- and n is 1-3;

~~L_2 is selected from C_2-C_6-alkylene, C_1-C_6-alkylene-arylene-C_1-C_6-alkylene and C_1-C_6-alkylene-C_3-C_8-cycloalkylene-C_1-C_6-alkylene;~~

Z is a divalent group selected from -O-, -S-, -NH-, -N(C_1-C_6-alkyl)-, -N(C_3-C_8 alkenyl)-, -N(C_3-C_8 cycloalkyl)-, -N(aryl)-, -N(SO_2C_1-C_6-alkyl) ~~and~~ or -N(SO_2 aryl)-, provided that when Q is a photopolymerizable optionally substituted maleimide radical, Z represents a covalent bond;

Q is an ethylenically-unsaturated, photosensitive polymerizable group; and

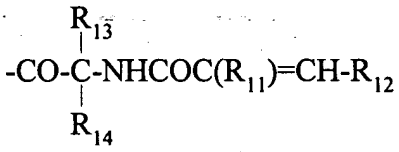
~~m and m_1 each is 0 or 1~~m is 0 or 1.

2. (Currently amended) Anthraquinone compounds according to Claim 1 wherein the ethylenically-unsaturated, photosensitive copolymerizable groups represented by Q are selected from the following organic radicals:

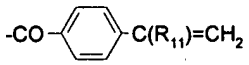
Ia $-COC(R_{11})=CH-R_{12}$

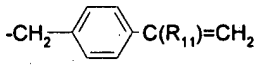
IIa $-CONH-COC(R_{11})=CH-R_{12}$

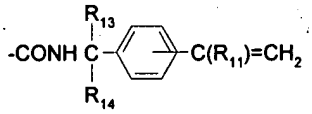
IIIa $-CONH-C_1$ - C_6-alkylene $OCOC(R_{11})$ $-CH=CH-R_{12}$

IVa 

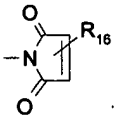
Va $-COCH=CH-CO_2R_{15}$

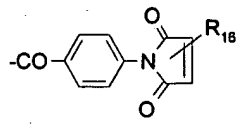
VIa 

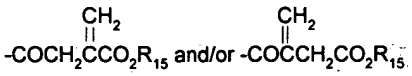
VIIa 

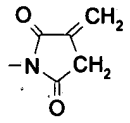
VIIIa 

IXa $-SO_2C(R_{11})=CH_2$

Xa  ~~And~~

XIa 

XIIa 

XIIIa 

wherein:

R_{11} is ~~selected from hydrogen and~~ hydrogen or C_1-C_6-alkyl;

R_{12} is ~~selected from~~ hydrogen; C_1-C_6-alkyl; phenyl ~~and~~ or phenyl substituted with one or more groups selected from C_1-C_6-alkyl, C_1-C_6-alkoxy, -N(C_1-C_6-alkyl), nitro, cyano, C_1-C_6-alkoxycarbonyl, C_1-C_6-alkanoyloxy and halogen; ~~1- and 2-naphthyl~~ 1- or 2-naphthyl which may be substituted with C_1-C_6-alkyl or C_1-C_6-alkoxy; ~~2- and 3-thienyl~~ 2- or 3-thienyl which may be substituted with C_1-C_6-alkyl or halogen; or 2- or 3-furyl which may be substituted with C_1-C_6-alkyl;

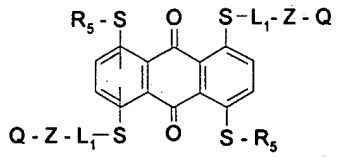
R_{13} and R_{14} are ~~selected from~~ hydrogen, C_1-C_6-alkyl, substituted C_1-C_6-alkyl, aryl or may be combined to represent a –[-CH_2-]$_{3-5}$- radical;

R_{15} is ~~selected from~~ hydrogen, C_1-C_6-alkyl, substituted C_1-C_6-alkyl, C_3-C_8-alkenyl, C_3-C_8-cycloalkyl ~~and aryl~~ or aryl;

R_{16} is ~~selected from~~ hydrogen, C_1 - C_6-alkyl ~~and aryl~~ or aryl.

Claims 3 – 10 (Canceled)

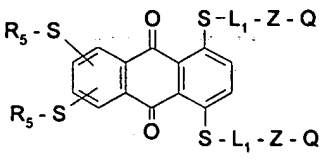
11. (Original) Anthraquinone compounds according to Claim 2 having the formula:

X. 

wherein Z is –O-.

Claims 12 and 13 (Canceled)

14. (Original) Anthraquinone compounds according to Claim 2 having the formula:

XIV. 

wherein Z is –O-.

Claims 15 – 18 (Canceled)

19. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia.

20. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia wherein R_{11} is hydrogen or methyl and R_{12} is hydrogen.

21. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa.

22. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa wherein R_{11} is hydrogen.

23. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIIa.

24. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIIa wherein R_{11} is hydrogen or methyl and R_{13} and R_{14} are methyl.

Claims 25 – 46 (Canceled)

47. (Original) A coating composition comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 1, and (iii) a photoinitiator.

48. (Currently amended) A coating composition ~~according to Claim 47~~ comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 2 present in a concentration of about 0.05 to 15 weight percent based on the weight of component (i), and (iii) a photoinitiator present in a concentration of about 1 to 15 weight percent based on the weight of the polymerizable vinyl compound(s) present in the coating composition.

49. (Original) A coating composition according to Claim 48 wherein the polymerizable vinyl compounds comprise a solution of a polymeric, polymerizable vinyl compound selected from acrylated and methacrylated polyesters, acrylated and methacrylated polyethers, acrylated and methacrylated epoxy polymers , acrylated or methacrylated urethanes, and mixtures thereof, in a diluent selected from monomeric acrylate and methacrylate esters.

50. (Currently amended) A polymeric coating composition comprising a polymer of one or more acrylic acid esters, one or more methacrylic acid esters ~~and/or other~~ or other copolymerizable vinyl compounds, having copolymerized therein one or more of the dye compounds defined in Claim 1.

51. (Currently amended) A polymeric coating composition ~~according to Claim 50~~ comprising a coating of an acrylic polymer of one or more acrylic acid esters, one or more methacrylic acid esters or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

52. (Currently amended) A polymeric coating composition ~~according to Claim 50~~ comprising a coating of an unsaturated polyester containing one or more maleate/fumarate residues; one or more monomers which contain one or more vinyl

ether groups, one or more vinyl ester groups, or a combination thereof, and, optionally, one or more acrylic or methacrylic acid esters; or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

53. (Currently amended) A polymeric coating according to Claim 51 containing from about 0.05 to 15.0 weight percent of the residue of one or more of the dye compounds ~~of Claim 2~~ based on the weight of the coating.